FIG. 1

Characteristic XRD spectrum by CUKalpha-radiation of inventive carbon powders of carbide origin.

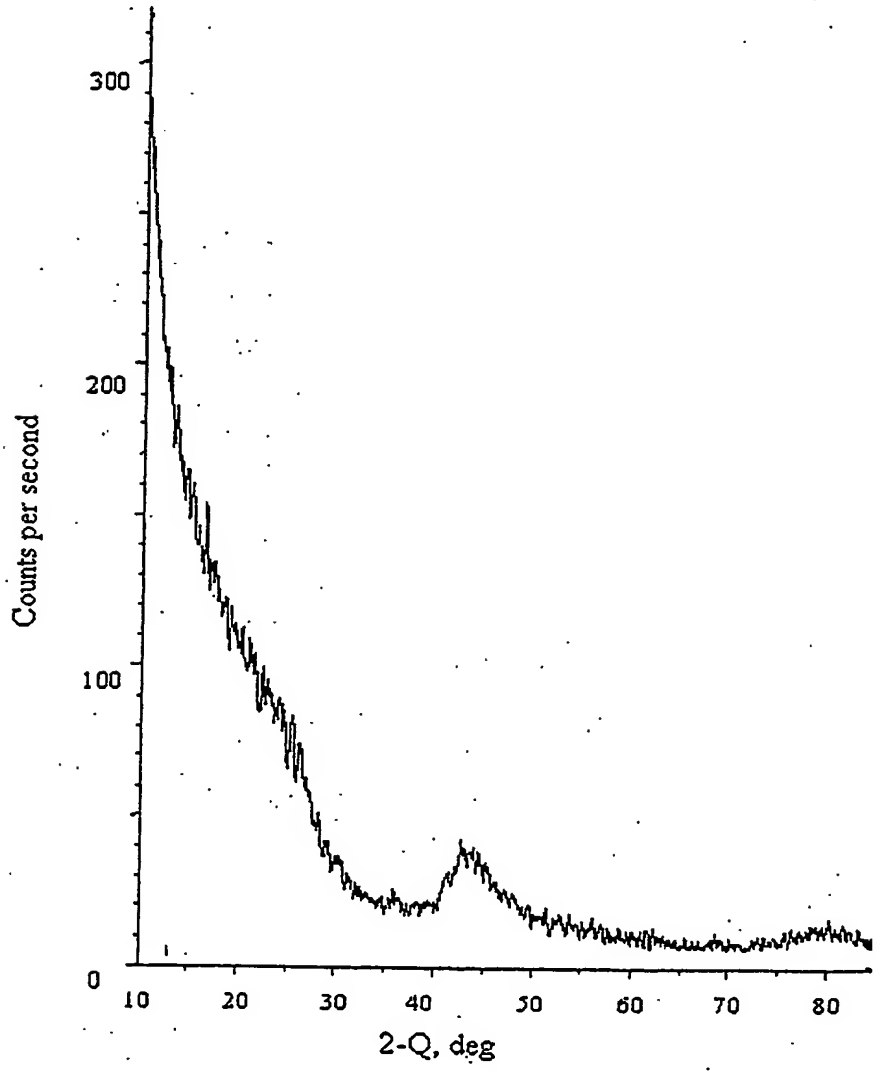

FIG. 2

An effect of different oxidative treatments on the pore size distribution of the high-surface area microporous carbon (1a) according the Density Functional Theory.

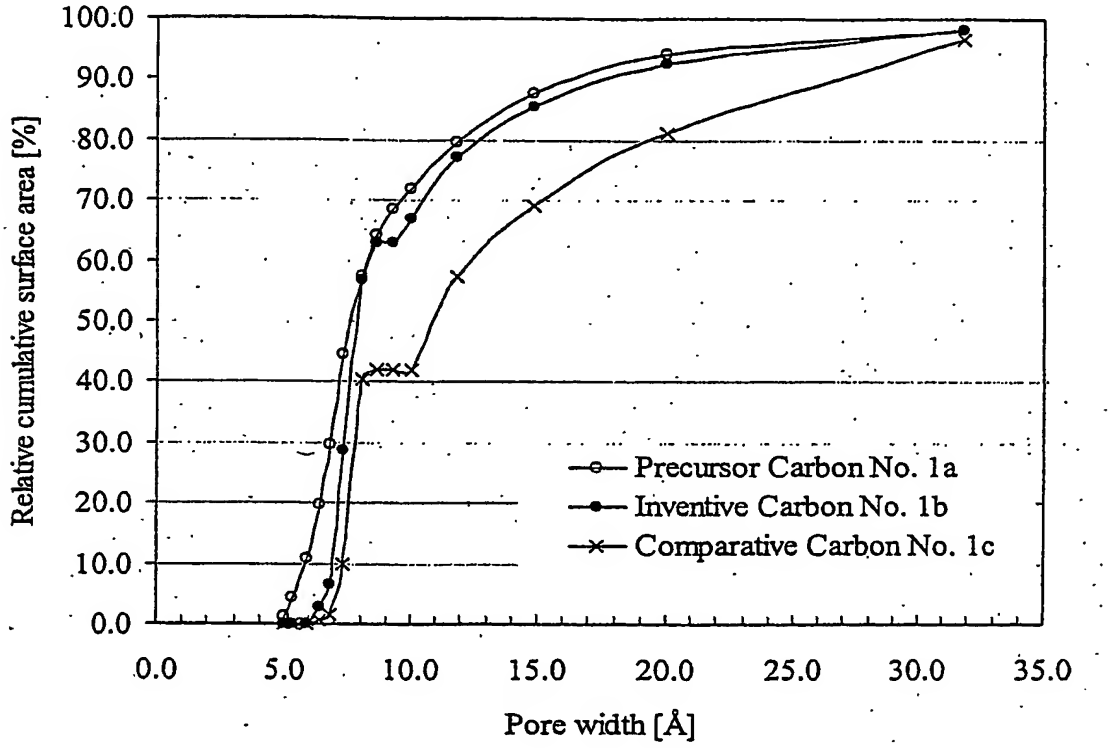

FIG. 3

Comparison of the pore size distribution of the high-surface area microporous carbon materials of TiC origin according the Density Functional Theory.

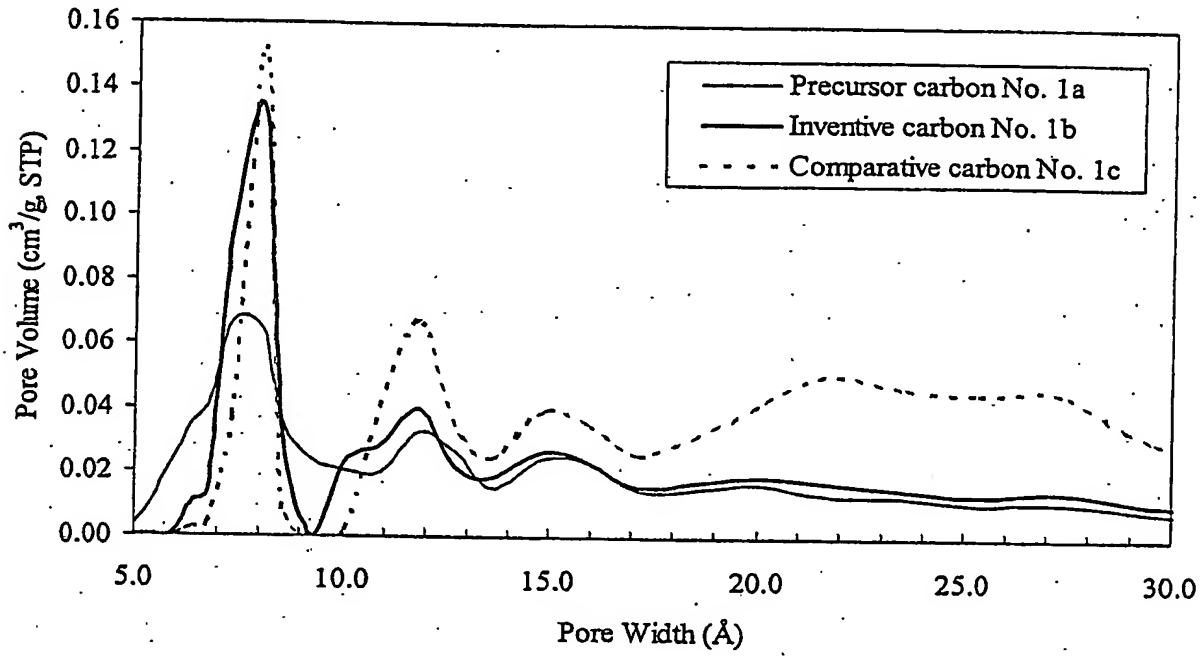

FIG. 4

Dependence of micro-porosity and specific capacitance according to impedance spectroscopy of microporous carbon electrodes of TiC origin in 1M TEMA / acetonitrile electrolyte. The empty symbols correspond to the precursor and comparative materials, the filled patterns to the inventive materials.

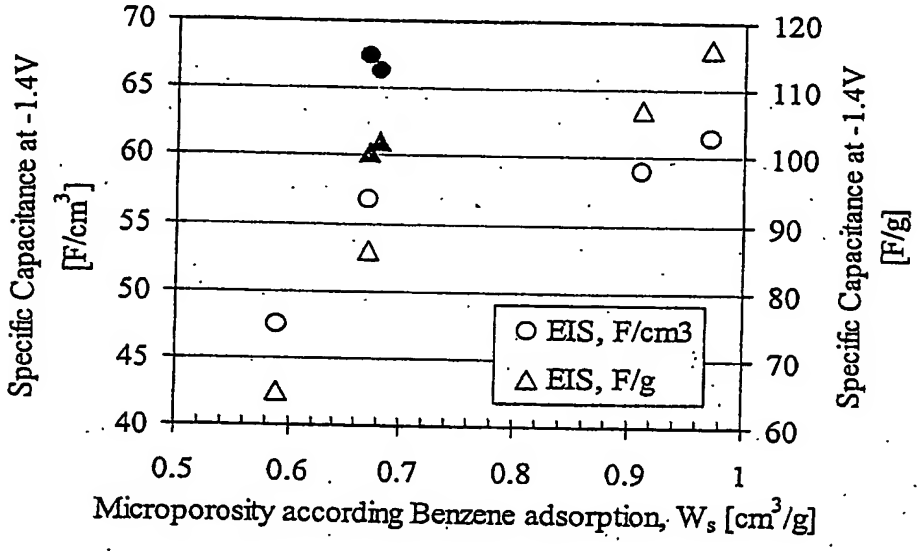

FIG. 5

Ragone Plot of "1000F" unpacked supercapacitors showing the advantage of inventive carbon materials (cation-active electrode from the carbon 1b).